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Atty. Docket No. 5614.06  
Application No. 09/865,995



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
 )  
Robert M. Zubrin et al. )  
 ) Group Art Unit: 3761  
Appln. No.: 09/865,995 )  
 ) Examiner: Mendoza, M. G.  
Filed: May 25, 2001 )  
 )  
For: NITROUS OXIDE BASED OXYGEN )  
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**AMENDMENT AND RESPONSE TO OFFICE ACTION**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action of August 5, 2002, please amend the above-identified application and consider the Remarks as follows:

**In the Claims**

Please amend claims 10, 12, 16, 23, 24, 34, 36, and 47 as follows:

B1  
10. (Amended) The system of claim 9 further comprising a control system in communication with said reactor and said first throttling device for insuring sufficient flow to said reactor to sustain said decomposition.

B2  
12. (Amended) The system of claim 1 wherein a membrane after the reactor is added to enrich the percentage of oxygen in the breathable gas mixture.

B3  
16. (Amended) The system of claim 1 wherein an effluent gas from said reactor is passed adjacent said vaporized N<sub>2</sub>O such that there is heat transfer from said effluent gas to said vaporized N<sub>2</sub>O.

B4  
23. (Amended) The system of claim 1 wherein said second throttling device is selected from the group consisting of a valve, pump, expander, orifice, regulator, or combinations thereof.